

Pursuant to the authority vested in California Air Resources Board by Health and Safety Code Sections 43013, 43018, 43101, 43102 and 43104; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

**IT IS ORDERED AND RESOLVED:** That the following new spark-ignition marine engine and emission control systems (ECS) produced by the manufacturer are certified as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	FUEL TYPE	DISPLACEMENT (cc)	LEVEL OF CLEANLINESS
2020	LM9XM.9952GE	Gasoline	995	Ultra Low Emission ("Three Stars")
EQUIPMENT APPLICATION		ECS & SPECIAL FEATURES		ENGINE TYPE
Outboard		Multiport Fuel Injection		4-Stroke
ENGINE MODELS (rated power in kilowatts, kW)	See Attachment			

**BE IT ORDERED AND RESOLVED:** That the listed engines are certified to a hydrocarbon plus oxides of nitrogen (HC+NOx) family emission limit (FEL) and a carbon monoxide (CO) direct standard in accordance with a plan submitted by the manufacturer to, and approved by, the Executive Officer for compliance with the exhaust emission standards on a corporate average basis pursuant to Title 13, California Code of Regulations, (13 CCR) Section 2442(a). The HC+NOx FEL and the CO standard shall be the applicable emission standards for this engine family for determining compliance of any engine within this engine family pursuant to 13 CCR Sections 2444.1 (in-use compliance) and 2446 (audit testing). The standards and certification emission levels in grams per kilowatt-hour (g/kW-hr) for this engine family are as follows. Engines in this engine family shall have closed crankcases in conformance with Part I, Section 18(h) of the "California Exhaust Emission Standards and Test Procedures for 2001 Model-Year and Later Spark-Ignition Marine Engines."

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)
STANDARD	*	300.0
FAMILY EMISSION LEVEL	16.50	*
CERTIFICATION LEVEL	14.73	193.0

Compliance with the emission standards on a corporate average basis shall be determined pursuant to 13 CCR Section 2442(a) based on the sales-weighted average power of all engines produced for sale in California that are included in the approved corporate average compliance plan for the model-year.

**BE IT FURTHER RESOLVED:** That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Sections 2443.1, 2443.2 and 2443.3 (emission control, consumer, and environmental labels), and Sections 2445.1 and 2445.2 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter pursuant to 13 CCR Sections 2442(a)(2)(B) and 2446.

**This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.**

Executed at El Monte, California on this 22<sup>nd</sup> day of November 2020.

  
 Allen Lyons, Chief  
 Emissions Certification and Compliance Division

Model Year: 2020  
 Manufacturer Name: Mercury Marine  
 Engine Family: LM9XM.9952GE  
 SI MARINE ENGINE SUPPLEMENT INFORMATION

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 Revised: 02/12/2020  
 E.O.#: U-W-001-0523

ATTACHMENT  
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S10. MODEL SUMMARY (Use asterisk to identify worst-case engine model used for certification testing)

S11 Model Designation	S12 Engine Code	S13 Sales Codes (Check all appropriate codes)			S14 Eng. Disp. (cc)	S15 Rated Power (kW)	S16 Rated Speed (RPM)	S17 Peak Torque (N-m)	S18 Peak Torque Speed (RPM)
		Calif. Only	49 State	50-State					
7F60413BZ				X	995	44.13	5750	76.5	3000
7F60453BZ				X	995	44.13	5750	76.5	3000
1960403LZ				X	995	44.13	5750	76.5	3000
1F4135T1Z				X	995	31.24	5500	67.2	2000
1F4134T1Z				X	995	31.24	5500	67.2	2000
1F4136T1Z				X	995	31.24	5500	67.2	2000
*1F414571Z				X	995	31.24	5500	67.2	2000
1F4145T1Z				X	995	31.24	5500	67.2	2000
1F414471Z				X	995	31.24	5500	67.2	2000
1F4144T1Z				X	995	31.24	5500	67.2	2000
1F414671Z				X	995	31.24	5500	67.2	2000
1F4146T1Z				X	995	31.24	5500	67.2	2000
1F6035T1Z				X	995	41.85	5500	73.9	5000
1F6034T1Z				X	995	41.85	5500	73.9	5000
1F6036T1Z				X	995	41.85	5500	73.9	5000
1F604571Z				X	995	41.85	5500	73.9	5000
1F6045T1Z				X	995	41.85	5500	73.9	5000
1F604471Z				X	995	41.85	5500	73.9	5000
1F6044T1Z				X	995	41.85	5500	73.9	5000
1F604671Z				X	995	41.85	5500	73.9	5000
1F6046T1Z				X	995	41.85	5500	73.9	5000
1F50473LZ				X	995	36.78	5750	68	5000
1F41453GZ				X	995	29.42	5750	66.1	2750
1F60473GZ				X	995	44.13	5750	76.5	3000
1F51411GZ				X	995	36.78	5750	68	5000
1F51413GZ				X	995	36.78	5750	68	5000
1F51453GZ				X	995	36.78	5750	68	5000

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1F60411GZ			X	995	44.13	5750	76.5	3000
1F60351GZ			X	995	44.13	5750	76.5	3000
1F5145TGZ			X	995	36.78	5750	68	5000
1F60453GZ			X	995	44.13	5750	76.5	3000
1F6035TGZ			X	995	44.13	5750	76.5	3000
1F6045TGZ			X	995	44.13	5750	76.5	3000
1F60413GZ			X	995	44.13	5750	76.5	3000
1F60463GZ			X	995	44.13	5750	76.5	3000
1F5141TJZ			X	995	36.78	5750	68	5000
1F5145TJZ			X	995	36.78	5750	68	5000
1F6035TJZ			X	995	44.13	5750	76.5	3000
1F6041TJZ			X	995	44.13	5750	76.5	3000
1F6045TJZ			X	995	44.13	5750	76.5	3000
1F6047TJZ			X	995	44.13	5750	76.5	3000
1F4134TEZ			X	995	31.24	5500	67.2	2000
1F4135TEZ			X	995	31.24	5500	67.2	2000
1F4136TEZ			X	995	31.24	5500	67.2	2000
1F4144TEZ			X	995	31.24	5500	67.2	2000
1F4145TEZ			X	995	31.24	5500	67.2	2000
1F4146TEZ			X	995	31.24	5500	67.2	2000
1F6034TEZ			X	995	41.85	5500	73.9	5000
1F6035TEZ			X	995	41.85	5500	73.9	5000
1F6036TEZ			X	995	41.85	5500	73.9	5000
1F6044TEZ			X	995	41.85	5500	73.9	5000
1F6045TEZ			X	995	41.85	5500	73.9	5000
1F6046TEZ			X	995	41.85	5500	73.9	5000
19604031Z			X	995	44.13	5750	76.5	3000